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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

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## Complete if Known

|                        |                  |
|------------------------|------------------|
| Application Number     | 10/044,603       |
| Filing Date            | 01/10/2002       |
| First Named Inventor:  | Kathrin Berkner  |
| Art Unit               | 2621             |
| Examiner Name          | Not Yet Assigned |
| Attorney Docket Number | 074451.P137      |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. | Document Number                          |            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|--------------------|----------|--|------------|--------------------------------|--|--|
|                    |          | Number-Kind Code <sup>2</sup> (if known) |            |                                |  |  |
| ★                  |          | us-                                      | 3,580,655  | 5/25/1971                      | Leith et al.                                       |  |
|                    |          | us-                                      | 3,950,103  | 4/13/1976                      | Schmidt-Weinmar                                    |  |
|                    |          | us-                                      | 4,136,954  | 1/30/1979                      | Jamieson   |  |
|                    |          | us-                                      | 4,155,097  | 5/15/1979                      | Lux  |  |
|                    |          | us-                                      | 4,190,861  | 2/26/1980                      | Lux  |  |
|                    |          | us-                                      | 4,223,354  | 9/16/1980                      | Noble et al.                                       |  |
|                    |          | us-                                      | 4,393,456  | 7/12/1983                      | Marshall, Jr.                                      |  |
|                    |          | us-                                      | 4,437,087  | 3/13/1984                      | Petr   |  |
|                    |          | us-                                      | 4,569,075  | 2/4/1986                       | Nussbaumer   |  |
|                    |          | us-                                      | 4,599,567  | 7/8/1986                       | Goupillaud et al.                                  |  |
|                    |          | us-                                      | 4,652,881  | 3/24/1987                      | Lewis  |  |
|                    |          | us-                                      | 4,663,660  | 5/5/1987                       | Fedele et al.                                      |  |
|                    |          | us-                                      | 4,674,125  | 6/16/1987                      | Carlson et al.                                     |  |
|                    |          | us-                                      | 4,701,006  | 10/20/1987                     | Perlmutter   |  |
|                    |          | us-                                      | 4,751,742  | 6/14/1988                      | Meeker   |  |
|                    |          | us-                                      | 4,760,563  | 7/26/1988                      | Beylkin  |  |
|                    |          | us-                                      | 4,785,348  | 11/15/1988                     | Fonsalas et al.                                    |  |
|                    |          | us-                                      | 4,785,349  | 11/15/1988                     | Keith et al.                                       |  |
|                    |          | us-                                      | 4,799,179  | 1/17/1989                      | Masson et al.                                      |  |
|                    |          | us-                                      | 4,805,129  | 2/14/1989                      | David  |  |
|                    | us-      | 4,815,023                                | 3/21/1989  | Arbeiter                       |  |  |
|                    | us-      | 4,817,182                                | 3/28/1989  | Adelson et al.                 |  |  |
|                    | us-      | 4,821,223                                | 4/11/1989  | David                          |  |  |
|                    | us-      | 4,827,336                                | 5/2/1989   | Acampora et al.                |  |  |
|                    | us-      | 4,829,378                                | 5/9/1989   | Le Gall                        |  |  |
|                    | us-      | 4,837,517                                | 6/6/1989   | Barber                         |  |  |
|                    | us-      | 4,839,889                                | 6/13/1989  | Gockler                        |  |  |
|                    | us-      | 4,858,017                                | 8/15/1989  | Torbey                         |  |  |
|                    | us-      | 4,864,398                                | 9/5/1989   | Avis et al.                    |  |  |
|                    | us-      | 4,868,868                                | 9/19/1989  | Yazu et al.                    |  |  |
|                    | us-      | 4,881,075                                | 11/14/1989 | Weng                           |  |  |
|                    | us-      | 4,894,713                                | 1/16/1990  | Delogne et al.                 |  |  |
|                    | us-      | 4,897,717                                | 1/30/1990  | Hamilton et al.                |  |  |
|                    | us-      | 4,899,147                                | 2/6/1990   | Schiavo et al.                 |  |  |
|                    | us-      | 4,904,073                                | 2/27/1990  | Lawton et al.                  |  |  |
|                    | us-      | 4,918,524                                | 4/17/1990  | Ansari et al.                  |  |  |
|                    | us-      | 4,922,544                                | 5/1/1990   | Stansfield et al.              |  |  |
|                    | us-      | 4,929,223                                | 5/29/1990  | Walsh                          |  |  |
|                    | us-      | 4,929,946                                | 5/29/1990  | O'Brien et al.                 |  |  |
|                    | us-      | 4,936,665                                | 6/26/1990  | Whitney                        |  |  |
|                    | us-      | 4,973,961                                | 11/27/1990 | Chamzas et al.                 |  |  |
|                    | us-      | 4,974,187                                | 11/27/1990 | Lawton                         |  |  |
| ✓                  |          | us-                                      | 4,982,283  | 1/1/1991                       | Acampora   |  |

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|-----------------------|-----------------------|--|------------|--------------------------------|--|--|
|                       |                       | Number-Kind Code <sup>2</sup> (if known) |            |                                |  |  |
| ✓                     |                       | us-                                      | 4,985,927  | 1/15/1991                      | Norwood et al.                                     |  |
|                       |                       | us-                                      | 4,987,480  | 1/22/1991                      | Lippman et al.                                     |  |
|                       |                       | us-                                      | 4,999,705  | 3/12/1991                      | Puri   |  |
|                       |                       | us-                                      | 5,000,183  | 3/19/1991                      | Bonnefous  |  |
|                       |                       | us-                                      | 5,001,764  | 3/19/1991                      | Wood et al.  |  |
|                       |                       | us-                                      | 5,014,134  | 5/7/1991                       | Lawton et al.                                      |  |
|                       |                       | us-                                      | 5,018,210  | 5/21/1991                      | Merryman et al.                                    |  |
|                       |                       | us-                                      | 5,049,992  | 9/17/1991                      | Citta et al.                                       |  |
|                       |                       | us-                                      | 5,049,993  | 9/17/1991                      | Le Gall et al.                                     |  |
|                       |                       | us-                                      | 5,068,911  | 11/26/1991                     | Resnikoff et al.                                   |  |
|                       |                       | us-                                      | 5,072,308  | 12/10/1991                     | Lin et al.   |  |
|                       |                       | us-                                      | 5,073,964  | 12/17/1991                     | Resnikoff  |  |
|                       |                       | us-                                      | 5,081,645  | 1/14/1992                      | Resnikoff et al.                                   |  |
|                       |                       | us-                                      | 5,095,447  | 3/10/1992                      | Manns et al.                                       |  |
|                       |                       | us-                                      | 5,097,261  | 3/17/1992                      | Langdon, Jr. et al.                                |  |
|                       |                       | us-                                      | 5,097,331  | 3/17/1992                      | Chen et al.  |  |
|                       |                       | us-                                      | 5,101,280  | 3/31/1992                      | Moronaga et al.                                    |  |
|                       |                       | us-                                      | 5,101,446  | 3/31/1992                      | Resnikoff et al.                                   |  |
|                       |                       | us-                                      | 5,103,306  | 4/7/1992                       | Weiman et al.                                      |  |
|                       |                       | us-                                      | 5,109,451  | 4/28/1992                      | Aono et al.  |  |
|                       |                       | us-                                      | 5,121,191  | 6/9/1992                       | Cassereau et al.                                   |  |
|                       |                       | us-                                      | 5,124,930  | 6/23/1992                      | Nicholas et al.                                    |  |
|                       |                       | us-                                      | 5,128,757  | 7/7/1992                       | Citta et al.                                       |  |
|                       |                       | us-                                      | 5,128,791  | 7/7/1992                       | Le Gall et al.                                     |  |
|                       |                       | us-                                      | 5,148,498  | 9/15/1992                      | Resnikoff et al.                                   |  |
|                       |                       | us-                                      | 5,152,953  | 10/6/1992                      | Ackermann  |  |
|                       |                       | us-                                      | 5,156,943  | 10/20/1992                     | Whitney  |  |
|                       |                       | us-                                      | 5,173,880  | 12/22/1992                     | Duren et al.                                       |  |
|                       |                       | us-                                      | 5,182,645  | 1/26/1993                      | Breeuwer et al.                                    |  |
|                       |                       | us-                                      | 5,223,926  | 6/29/1993                      | Stone, et al.                                      |  |
|                       | us-                   | 5,235,434                                | 8/10/1993  | Wober                          |  |  |
|                       | us-                   | 5,241,395                                | 8/31/1993  | Chen                           |  |  |
|                       | us-                   | 5,262,958                                | 11/16/1993 | Chui et al.                    |  |  |
|                       | us-                   | 5,276,525                                | 1/4/1994   | Gharavi                        |  |  |
|                       | us-                   | 5,315,670                                | 5/24/1994  | Shapiro                        |  |  |
|                       | us-                   | 5,321,776                                | 6/14/1994  | Shapiro                        |  |  |
|                       | us-                   | 5,335,016                                | 8/2/1994   | Nakagawa                       |  |  |
|                       | us-                   | 5,347,479                                | 9/13/1994  | Miyazaki                       |  |  |
|                       | us-                   | 5,349,348                                | 9/20/1994  | Anderson et al.                |  |  |
|                       | us-                   | 5,379,355                                | 1/3/1995   | Allen                          |  |  |
|                       | us-                   | 5,381,145                                | 1/10/1995  | Allen et al.                   |  |  |
|                       | us-                   | 5,384,869                                | 1/24/1995  | Wilkinson et al.               |  |  |
| ✓                     |                       | us-                                      | 5,412,741  | 5/2/1995                       | Shapiro  |  |

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 Art Unit 2621  
 Examiner Name Not Yet Assigned  
 Attorney Docket Number 074451.P137

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| 8                     |                       | us-                                      | 5,414,780  | 5/9/1995                       | Camahan  |  |
|                       |                       | us-                                      | 5,416,604  | 5/16/1995                      | Park   |  |
|                       |                       | us-                                      | 5,420,891  | 5/30/1995                      | Akansu   |  |
|                       |                       | us-                                      | 5,453,945  | 9/26/1995                      | Tucker et al.                                      |  |
|                       |                       | us-                                      | 5,455,874  | 10/3/1995                      | Ormsby et al.                                      |  |
|                       |                       | us-                                      | 5,481,308  | 1/2/1996                       | Hartung et al.                                     |  |
|                       |                       | us-                                      | 5,495,292  | 2/27/1996                      | Zhang et al.                                       |  |
|                       |                       | us-                                      | 5,497,435  | 3/5/1996                       | Berger   |  |
|                       |                       | us-                                      | 5,511,151  | 4/23/1996                      | Russell et al.                                     |  |
|                       |                       | us-                                      | 5,534,925  | 7/9/1996                       | Zhong  |  |
|                       |                       | us-                                      | 5,537,493  | 7/16/1996                      | Wilkinson  |  |
|                       |                       | us-                                      | 5,541,594  | 7/30/1996                      | Huang et al.                                       |  |
|                       |                       | us-                                      | 5,442,458  | 8/15/1995                      | Rabbani et al.                                     |  |
|                       |                       | us-                                      | 5,546,477  | 8/13/1996                      | Knowles et al.                                     |  |
|                       |                       | us-                                      | 5,563,960  | 10/8/1996                      | Shapiro  |  |
|                       |                       | us-                                      | 5,566,089  | 10/15/1996                     | Hoogenboom   |  |
|                       |                       | us-                                      | 5,602,589  | 2/11/1997                      | Vishwanath et al.                                  |  |
|                       |                       | us-                                      | 5,631,977  | 5/20/1997                      | Koshi  |  |
|                       |                       | us-                                      | 5,638,498  | 6/10/1997                      | Tyler et al.                                       |  |
|                       |                       | us-                                      | 5,657,085  | 8/12/1997                      | Katto  |  |
|                       | us-                   | 5,701,367                                | 12/23/1997 | Koshi et al.                   |  |  |
|                       | us-                   | 5,717,789                                | 2/10/1998  | Anderson, et al.               |  |  |
|                       | us-                   | 5,754,793                                | 5/19/1998  | Eom et al.                     |  |  |
|                       | us-                   | 5,808,683                                | 9/15/1998  | Tong et al.                    |  |  |
|                       | us-                   | 5,809,176                                | 9/15/1998  | Yajima                         |  |  |
|                       | us-                   | 5,850,482                                | 12/15/1998 | Meany et al.                   |  |  |
|                       | us-                   | 5,867,602                                | 2/2/1999   | Zandi et al.                   |  |  |
|                       | us-                   | 5,880,856                                | 3/9/1999   | Ferriere                       |  |  |
|                       | us-                   | 5,966,465                                | 10/12/1999 | Keith et al.                   |  |  |
|                       | us-                   | 6,020,975                                | 2/1/2000   | Chen et al.                    |  |  |
|                       | us-                   | 6,026,198                                | 2/15/2000  | Okada                          |  |  |
|                       | us-                   | 6,088,062                                | 7/11/2000  | Kanou et al.                   |  |  |
|                       | us-                   | 6,101,279                                | 8/8/2000   | Nguyen et al.                  |  |  |
|                       | us-                   | 6,118,902                                | 9/12/2000  | Knowles                        |  |  |
|                       | us-                   | 6,121,970                                | 9/19/2000  | Guedalia                       |  |  |
|                       | us-                   | 6,128,413                                | 10/3/2000  | Benamara                       |  |  |
|                       | us-                   | 6,160,846                                | 12/12/2000 | Chiang                         |  |  |
|                       | us-                   | 6,201,897 B1                             | 3/13/2001  | Nixon                          |  |  |
|                       | us-                   | 6,229,929 B1                             | 5/8/2001   | Lynch et al.                   |  |  |
|                       | us-                   | 6,236,765 B1                             | 5/22/2001  | Archarya                       |  |  |
|                       | us-                   | 6,237,010 B1                             | 5/22/2001  | Hui et al.                     |  |  |
|                       | us-                   | 6,263,109 B1                             | 7/17/2001  | Ordentlich et al.              |  |  |
|                       | us-                   | 6,263,120 B1                             | 7/17/2001  | Matsuoka                       |  |  |

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| <b>Application Number</b>     | 10/044,603       |
| <b>Filing Date</b>            | 01/10/2002       |
| <b>First Named Inventor:</b>  | Kathrin Berkner  |
| <b>Art Unit</b>               | 2621             |
| <b>Examiner Name</b>          | Not Yet Assigned |
| <b>Attorney Docket Number</b> | 074451.P137      |

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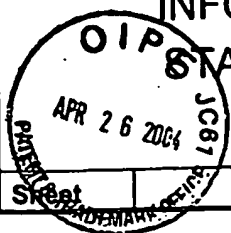
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## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup><br>(if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document        | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| ✓                  |                       | EPO 0510933 A1  | 10/28/1992                     | Canon Kabushiki Kaisha                                 |   |                |
|                    |                       | EPO 0593013 A2  | 4/20/1994                      | Kabushiki Kaisha Toshiba                               |   |                |
|                    |                       | EPO 0611051 A1  | 8/17/1994                      | Canon Kabushiki Kaisha                                 |   |                |
|                    |                       | EPO 0622741 A2  | 11/2/1994                      | Klics, Ltd.  |   |                |
|                    |                       | EPO 0967556 A2  | 12/29/1999                     | Hewlett-Packard Co.                                    |   |                |
|                    |                       | EPO 1035511 A2  | 9/13/2000                      | Canon Kabushiki Kaisha                                 |   |                |
|                    |                       | EPO 1164781 A1  | 12/19/2001                     | Matsushita Electric Ind. Co., Ltd                      |   |                |
|                    |                       | EPO 701375 A2   | 3/13/1996                      | Xerox Corporation                                      |   |                |
|                    |                       | JP 06-245077  | 9/2/1994                       | Nec Corp.  |   |                |
|                    |                       | JP 406038193 A  | 7/17/1992                      | Casio Computer Co. Ltd.                                |   |                |
|                    |                       | JP 6-350989   | 12/22/1994                     | Fuji Photo Film Co. Ltd.                               |   |                |
|                    |                       | JP 7-79350  | 3/20/1995                      | Fuji Photo Film Co. Ltd.                               |   |                |
|                    |                       | PCT WO 00/49571   | 8/24/2000                      | Digital Accelerator Corp.                              |   |                |
|                    |                       | PCT WO 01/16764 A1  | 3/8/2001                       | Rtimage Inc.   |   |                |
|                    |                       | PCT WO 88/10049   | 12/15/1988                     | Eastman Kodak Co.                                      |   |                |
|                    |                       | PCT WO 91/03902   | 3/21/1991                      | Aware, Inc.  |   |                |
|                    |                       | PCT WO 91/18361   | 11/28/1991                     | Yale University  |   |                |
|                    |                       | PCT WO 93/10634   | 5/27/1993                      | General Electric Co.                                   |   |                |
|                    |                       | PCT WO 94/17492   | 8/4/1994                       | David Saroff Research Ctr., Ind Technology Center 2600 |   |                |
|                    |                       | PCT WO 94/23385   | 10/13/1994                     | Lewis, Adrian  |   |                |
|                    |                       | PCT WO 95/19683   | 7/20/1995                      | Houston Advanced Research Ctr.                         |   |                |
|                    |                       | PCT WO 96/09718   | 3/28/1996                      | Houston Advanced Research Ctr.                         |   |                |
|                    |                       | UK GB 2 211 691 A   | 7/5/1989                       | Hitachi Ltd.   |   |                |
|                    |                       | UK GB 2 284 121 A   | 5/24/1995                      | State of Israel- Ministry of Defence                   |   |                |
|                    |                       | UK GB 2 285 374 A   | 7/5/1995                       | Ricoh Company Ltd.                                     |   |                |
|                    |                       | UK GB 2 293 733 A   | 4/3/1996                       | Ricoh Company Ltd.                                     |   |                |
|                    |                       | UK GB 2 293 734 A   | 4/3/1996                       | Ricoh Company Ltd.                                     |   |                |
|                    |                       | UK GB 2 303 030 A   | 2/5/1997                       | Ricoh Company Ltd.                                     |   |                |
|                    |                       | UK GB 2 303 031 A   | 2/5/1997                       | Ricoh Company Ltd.                                     |   |                |
| ✓                  |                       | UK GB 2 341 035 A   | 3/1/2000                       | Ricoh Company Ltd.                                     |   |                |

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| ✓                               |                      | ANTONINI, et al., "Image Coding Using Wavelet Transform", <u>IEEE Transactions on Image Processing</u> , Vol. 1, No. 2, April 1992, pp. 205-220.  |                |
|                                 |                      | BLUMBERG, et al., "Visual Realism and Interactivity for the Internet", IEEE, 1997, pp. 269-273.   |                |
|                                 |                      | BOLIEK, et al., "Decoding compression with reversible embedded wavelets (CREW) codestreams", <u>Journal of Electronic Imaging</u> , July 1998, vol. 7 (3), pp. 402-409.   |                |
|                                 |                      | BOLIEK, et al., "JPEG 2000 for Efficient Imaging in a Client/Server Environment", <u>Proceeding of the PIE, SPIE, Bellingham, VA, US</u> , Vol. 4472, July 31, 2001, pp. 212-223, XP008010308.  |                |
|                                 |                      | BOLIEK, et al., "JPEG 2000 Next Generation Image Compression System", IEEE 0-7803-6297, 45-48   |                |
|                                 |                      | CALDERBANK, et al., "Wavelet Transforms That Map Integers to Integers", August 1996:  |                |
|                                 |                      | CAREY, et al: "Regularity-Preserving Image Interpolation", <u>IEEE Transactions on Image Processing</u> , Vol. 8., No. 9, September 1999, pgs. 1293-1297, XP002246254.  |                |
|                                 |                      | CARRATO, et al: "A Simple Edge-Sensitive Image Interpolation Filter", <u>Proceedings of the International Conference on Image Processing (ICIP) Lausanne, Sept. 16-19, 1996</u> , New York, IEEE, US, vol. 1, pgs. 711-714, XP010202493.                              |                |
|                                 |                      | CHEN, et al., "Wavelet Pyramid Image Coding with Predictable and Controllable Subjective Picture Quality", <u>IEICE Trans. Fundamentals</u> , Vol. E76-A., No. 9, September 1993, pp. 1458-1468.  |                |
|                                 |                      | CHEONG, et al., "Subband Image Coding with Biorthogonal Wavelets", <u>IEICE Trans. Fundamentals</u> , Vol. E75-A., No. 7, July 1992, pp. 871-881.   |                |
|                                 |                      | CHRYSAFIS, et al., "An Algorithm for Low Memory Wavelet Image Compression", IEEE 0-7803-5467-2/99, pg. 354-358.   |                |
|                                 |                      | CHRYSAFIS, et al., "Line Based Reduced Memory, Wavelet Image Compression," <u>Data Compression Conference, 1998, DCC '98, Proceedings Snowbird, UT, March 1998</u> , pgs. 398-407.  |                |
|                                 |                      | CHUI, et al., "Wavelets on a Bounded Interval", <u>Numerical Methods of Approximation Theory</u> , Vol. 9, 1992, pg. 53-75.   |                |
|                                 |                      | CROCHIERE, et al., "Digital Coding of Speech in Sub-bands", 1976, <u>American Telephone and Telegraph Company, The Bell System Technical Journal</u> , Vol. 55, No. 8, October 1976, p. 1069-1085.  |                |
|                                 |                      | DENK, et al., "Architectures for Lattice Structure Based Orthonormal Discrete Wavelet Transforms", IEEE, 1994, pp. 259-270.   |                |
|                                 |                      | DESHPANDE, et al., "HTTP Streaming of JPEG2000 Images", IEEE, 2001, pp.15-19.   |                |
|                                 |                      | Dutch Search Report, 133082, 11/26/96.  |                |
|                                 |                      | ESTEBAN, et al., "1977 IEEE International Conference on Acoustics, Speech & Signal Processing", "Application of Quadrature Mirror Filters to Split Band Voice Coding Schemes", p. 191-195.  |                |
|                                 |                      | French Search Report, FR9511023, 11/26/96.  |                |
|                                 |                      | French Search Report, FR9511024, 11/26/96.  |                |
|                                 |                      | German Search Report, Dated March 21, 1997, 3 pages.  |                |
| ✓                               |                      | GHAHAVI, et al., "Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 4 of 4, "Application of Quadrature Mirror Filtering to the Coding of Monochrome and Color Images", p. 2384-2387. |                |

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Application Number 10/044,603

Filing Date 01/10/2002

First Named Inventor: Kathrin Berkner

Art Unit 2621

Examiner Name Not Yet Assigned

Attorney Docket Number

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|--------------------|----------------------|---|----------------|
| ✓                  |                      | GHARAVI, et al., "Sub-band Coding of Digital Images Using Two-Dimensional Quadrature Mirror Filtering", SPIE Vol. 707 Visual Communications and Image Processing, 1986, p. 51-61.   |                |
|                    |                      | GORDON, BENJAMIN M., et al., "A 1.2 mW Video-Rate 2-D Color Subband Decoder," IEEE Journal of Solid-State Circuits, IEEE Inc. New York, Vol. 30, No. 12, Dec. 1, 1995, pgs. 1510-1516.  |                |
|                    |                      | HAUF, et al., "The FlashPix™ Image File Format", The Fourth Color Imaging Conference: Color Science, Systems and Application, 1996, pp. 234-238.  |                |
|                    |                      | HOWARD, et al., "Fast and Efficient Lossless Image Compression", IEEE, 1993, pp. 351-360.   |                |
|                    |                      | Information Technology - JPEG 2000 Image Coding System - Part 1: Core Coding System, ISO/IEC 15444-1, 12/15/2000, pg. 5, 14, 22.  |                |
|                    |                      | International Search Report for Application No.: GB 9518298.6, dated 8. November 1995.  |                |
|                    |                      | JPEG 2000 Part 1 Final Committee Draft Version 1.0, Image Compression Standard described in ISO/IEC 1/SC 29/WG 1 N1646, 16 March 2000.  |                |
|                    |                      | KOMATSU, et al., "Reversible Subband Coding of Images", SPIE Vol. 2501, pp. 676-648..   |                |
|                    |                      | LANGDON, JR., "Sunset: A Hardware-Oriented Algorithm for Lossless Compression of Gray Scale Images", SPIE Vol. 1444, Image Capture, Formatting, and Display, 1991, pp. 272-282.   |                |
|                    |                      | LE GALL, et al., "Sub-band coding of Digital Images Using Symmetric Short Kernel Filters and Arithmetic Coding Techniques", 1988, International Conference on Acoustics, Speech and Signal Processing, pp. 761-764.   |                |
|                    |                      | LEWIS, et al., "Image Compression Using the 2-D Wavelet Transform", IEEE Transactions on Image Processing, Vol. 1, No. 2, April 1992, pp. 244-250.  |                |
|                    |                      | LUX, P., "A Novel Set of Closed Orthogonal Functions for Picture Coding", 1977, pp. 267-274.  |                |
|                    |                      | MARCELLIN, et al., "An Overview of JPEG-2000", Proceedings. DCC 2000 Snowbird, UT, USA, March 28-30, 2000, pp. 523-541, XP010377392.  |                |
|                    |                      | MENG, TERESA H., "A Wireless Portable Video-on-Demand System," VLSI Design, 1998, Proceedings Eleventh International Conference on Chennai, India 407, Jan. 1998, California, pgs. 4-9.   |                |
|                    |                      | OHTA, et al., "Wavelet Picture Coding with Transform Coding Approach", July 1992, No. 7, pp. 776-784.   |                |
|                    |                      | PADMANABHAN, et al., "Feedback-Based Orthogonal Digital Filters", IEEE Transactions on Circuits and Systems, 8/93, No. 8, pp. 512-525.  |                |
|                    |                      | POLLARA et al., "Rate-distortion Efficiency of Subband Coding with Integer Coefficient Filters", 7/1994, pg. 419, Information Theory, 1994, IEEE  |                |
|                    |                      | REEVES, et al: "Multiscale-Based Image Enhancement", Electrical and Computer Engineering, 1997. Engineering Innovation: Voyage of Discovery. IEEE 1997 Canadian Conference on St. Johns, NFLD., Canada May 25-28, 1997, New York, NY. (pgs. 500-503), XP010235053 |                |
|                    |                      | REUSENS, "New Results in Subband/Wavelet Image Coding", 5/1993, pg. 381-385.  |                |
|                    |                      | SAID, et al., "Image Compression Using the Spatial-Orientation Tree", IEEE, 1993, pp. 279-282.  |                |
| ✓                  |                      | SAID, et al., "Reversible Image Compression Via Multiresolution representation and Predictive Coding", 8/11/93, pp. 664-674.  |                |

|   |                        |                                 |                  |
|---|------------------------|---------------------------------|------------------|
| Substitute for Form 1449/PTO  |                        | Complete if Known               |                  |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |                        | Application Number              | 10/044,603       |
|   |                        | Filing Date                     | 01/10/2002       |
|   |                        | First Named Inventor:           | Kathrin Berkner  |
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|--------------------|----------------------|---|----------------|
| ✓                  |                      | SHAH, et al., "A Chip Set for Lossless Image Compression", <u>IEEE Journal of Solid-State Circuits</u> , Vol. 26, No. 3, March 1991, pp. 237-244.   |                |
|                    |                      | SHAPIRO, J. M., "An Embedded Hierarchical Image Coder Using Zerotrees of Wavelet Coefficients", <u>IEEE</u> , 1993, pp. 214-223.  |                |
|                    |                      | SHAPIRO, J. M., "Embedded Image Coding Using Zerotrees of Wavelet Coefficients", <u>IEEE Transactions on Signal Processing</u> , 12/93, No. 12, pp. 3445-3462.  |                |
|                    |                      | SMITH, et al., "Exact Reconstruction Techniques for Tree-Structured Subband Coders", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol ASSP-34, No. 3, June 1986, pp. 434-441.   |                |
|                    |                      | STOFFEL, et al: "A Survey Of Electronic Techniques For Pictorial Image Reproduction," <u>IEEE Transactions On Communications</u> , vol. COM-29, no. 12, December 1981, pp. 1898-1925, XP000560531 IEEE, New York (US).  |                |
|                    |                      | SZU, et al., "Image Wavelet Transforms Implemented by Discrete Wavelet Chips", <u>Optical Engineering</u> , July 1994, Vol. 33, No. 7, pp.2310-2325.  |                |
|                    |                      | VETTERLI, Martin, "Filter Banks Allowing Perfect Reconstruction", <u>Signal Processing 10</u> (1986), pp. 219-244.  |                |
|                    |                      | VETTERLI, Martin, "Multi-Dimensional Sub-band Coding: Some Theory and Algorithms", <u>Signal Processing 6</u> (1984) pg. 97-112.  |                |
|                    |                      | VILLASENOR, et al., "Filter Evaluation and Selection in Wavelet Image Compression", <u>IEEE</u> , 1994, pp. 351-360.  |                |
|                    |                      | WESTERNICK, et al., "Proceedings: ICASSP 87", 1987 International Conference on Acoustics, Speech, and Signal Processing, April 6, 7, 8, 9, 1987, Volume 3 of 4, "Sub-band coding of Images Using Predictive Vector Quantization", p. 1378-1381.   |                |
|                    |                      | WOODS, "Subband Image Coding", 1991, pages 101-108, 163-167, and 180-189.   |                |
|                    |                      | WOODS, et al., "Subband Coding of Images", <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , Vol. 1 ASSP-34, No. 5, October 1986, pp. 1278-1288.   |                |
|                    |                      | WOODS, et al., "Sub-band coding of Images", <u>Proceedings ICASSP 86</u> , Tokyo, Japan, April 1986, p. 1005-1008.  |                |
|                    |                      | WU, et al., "New Compression Paradigms in JPEG2000", <u>Applications of Digital Image Processing XXIII</u> , San Diego, CA USA, July 31-Aug 3, 2000, vol. 4115, pp. 418-429, XP008013391, <u>Proceedings of the DPIE - The International Society for Optical Engineering</u> , 2000, SPIE-Int. Soc. Opt. Eng., USA. |                |
| ✓                  |                      | XIONG, et al., "Joint Optimization of Scalar and Tree-structured Quantization of Wavelet Image Decompositions", 01/11/93, pp. 891-895.  |                |

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| <i>b</i>  |                      | BURTON, C.A., et al: "Case Study An Empirical Investigation Of Thumbnail Image Recognition", Proceedings of Visualization Conference, pp. 115-121, 1995.   |   |                          |                  |
| <i>b</i>  |                      | DONOHO, D.L., "De-noising By Soft-Thresholding," IEEE Transactions On Information Theory, Vol. 41, No. 3, pp. 613-627, May 1995.   |   |                          |                  |
| <i>b</i>  |                      | O'GORMAN, L., "The Document Spectrum For Page Layout Analysis," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 15, No. 11, pp. 1162-1173, November 1993.   |   |                          |                  |
| <i>b</i>  |                      | LEE, K., et al: "Perception-Based Image Transcoding For Universal Multimedia Access," IEEE 2001, pp. 475-478.  |   |                          |                  |
| <i>b</i>  |                      | MOHAN, R., et al: "Adapting Multimedia Internet Content For Universal Access," IEEE Transactions on Multimedia, Vol. 1, no. 1, pp. 104-114, March 1999.  |   |                          |                  |
| <i>b</i>  |                      | UCHIHASHI, S., et al: "Video Manga: Generating Semantically Meaningful Video Summaries," Proceedings of Seventh ACM International Multimedia Conference, Orlando, 1999.  |   |                          |                  |
| <i>b</i>  |                      | WOODRUFF, A., et al: "Using Thumbnails To Search The Web," Proceedings of SIGCHI'01, Seattle, April 2001.  |   |                          |                  |
| <i>b</i>  |                      | Flashpix file format, <a href="http://wwwse.kodak.com/US/en/digital/dlc/book2/chapter4/flashp3.shtml/">http://wwwse.kodak.com/US/en/digital/dlc/book2/chapter4/flashp3.shtml/</a> .  |   |                          |                  |
| <i>b</i>  |                      | Software Thumber by TawbaWare, <a href="http://members.tripod.com/~tawba/thumber.htm">http://members.tripod.com/~tawba/thumber.htm</a> .   |   |                          |                  |
| <i>b</i>  |                      | Software Thumbplus, <a href="http://www.thumbsplus.com">http://www.thumbsplus.com</a> .  |   |                          |                  |
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